

## Author Index

Abosch, A., see Fairfield, A.S., 77

Affranchino, J.L., see Ibañez, C.F., 27

Aguilar, Z., see Urbina, J.A., 185

Akella, R., Arasu, P. and Vaidya, A.B.  
Molecular clones of  $\alpha$ -tubulin genes of *Plasmodium yoelii* reveal an unusual feature of the carboxy terminus, 165

Akella, R., see Suplick, K., 289

Anders, R.F., see Lustigman, S., 217

Arasu, P., see Akella, R., 165

Arnon, R., see Marikovsky, M., 45

Åslund, L., see Ibañez, C.F., 27

Avilán, L., see Urbina, J.A., 185

Balber, A.E., see Darling, T.N., 253

Beck, E., see Felleisen, R., 19

Blaxter, M.L., Miles, M.A. and Kelly, J.M.  
Specific serodiagnosis of visceral leishmaniasis using a *Leishmania donovani* antigen identified by expression cloning, 259

Blum, J.J., see Darling, T.N., 253

Boveris, A., see Giulivi, C., 243

Brown, G.V., see Lustigman, S., 217

Butterworth, A.E., see Havercroft, J.C., 83

Bzik, D.J., Li, W.-b., Horii, T. and Inselberg, J.  
Amino acid sequence of the serine-repeat antigen (SERA) of *Plasmodium falciparum* determined from cloned cDNA, 279

Bzik, D.J., see Horii, T., 9

Camargo, M.E., see Ibañez, C.F., 27

Campbell, G.H., see Lal, A.A., 291

Collins, W.E., see Lal, A.A., 291

Coombs, G.H., see Lockwood, B.C., 135

Coppel, R.L., see Lustigman, S., 217

Crampton, J.M., see Murray, K.A., 209

Darling, T.N., Balber, A.E. and Blum, J.J.  
A comparative study of D-lactate, L-lactate and glycerol formation by four species of *Leishmania* and by *Trypanosoma lewisi* and *Trypanosoma brucei gambiense*, 253

De la Cruz, V.F., see Lal, A.A., 291

Denker, J.A., see Perrine, K.G., 97

Dunne, D.W., see Havercroft, J.C., 83

Eaton, J.W., see Fairfield, A.S., 77

Eisen, H., see Petry, K., 113

Estey, S.J. and Mansour, T.E.  
GTP binding regulatory proteins of adenylate cyclase in *Schistosoma mansoni* at different stages of development, 67

Fairfield, A.S., Abosch, A., Ranz, A., Eaton, J.W., and Meshnick, S.R.  
Oxidant defense enzymes of *Plasmodium falciparum*, 77

Felleisen, R., Klinkert, M.-Q. and Beck, E.  
*Schistosoma mansoni*: localisation of antigenic regions on the 31 kilodalton diagnostic protein, 19

Fishelson, Z., see Marikovsky, M., 45

Frasch, A.C.C., see Ibañez, C.F., 27

Giulivi, C., Turrens, J.F. and Boveris, A.  
Chemiluminescence enhancement by trypanocidal drugs and by inhibitors of antioxidant enzymes in *Trypanosoma cruzi*, 243

Hakomori, S.-i., see Petry, K., 113

Havercroft, J.C., Huggins, M.C., Nene, V., Dunne, D.W., Richardson, B.A., Taylor, D.W. and Butterworth, A.E.  
Cloning of the gene encoding a 50 kilodalton potential surface antigen of *Schistosoma mansoni*, 83

Helm, C.N., see Jones, J.T., 35

Helwig, M., see Wunderlich, F., 55

Horii, T., Bzik, D.J. and Inselberg, J.  
Characterization of antigen-expressing *Plasmodium falciparum* cDNA clones that are reactive with parasite inhibitory antibodies, 9

Horii, T., see Bzik, D.J., 279

Huggins, M.C., see Havercroft, J.C., 83

Hughes, C., see Koronakis, V.E., 89

Ibañez, C.F., Affranchino, J.L., Macina, R.A., Reyes, M.B., Leguizamón, S., Camargo, M.E., Åslund, L., Pettersson, U. and Frasch, A.C.C.  
Multiple *Trypanosoma cruzi* antigens containing tandemly repeated amino acid sequence motifs, 27

Inselberg, J., see Bzik, D.J., 279

Inselberg, J., see Horii, T., 9

Jiménez, B.M., see Soong Lee, C., 271

Jones, J.T., Helm, C.N. and Kusel, J.R.  
Variation in susceptibility of *Schistosoma mansoni* to damage by polycations, 35

Kelly, J.M., see Blaxter, M.L., 259

Klinkert, M.-Q., see Felleisen, R., 19

Koronakis, V.E., Ross, A.M., Le Page, R.W.F. and Hughes, C.  
Nuclear factors binding to the mini-exon repeat of *Trypanosoma brucei*, 89

Kouyate, B., see Murray, K.A., 209

Kusel, J.R., see Jones, J.T., 35

Lal, A.A., de la Cruz, V.F., Campbell, G.H., Procell, P.M., Collins, W.E. and McCutchan, T.F.  
Structure of the circumsporozoite gene of *Plasmodium malariae*, 291

Lambeir, A.-M., see Opperdoes, F.R., 155

Larralde, G., see Urbina, J.A., 185

Le Page, R.W.F., see Koronakis, V.E., 89

Leguizamón, S., see Ibañez, C.F., 27

Li, W.-b., see Bzik, D.J., 279

Liberator, P., see Profous-Juchelka, H., 233

Lockwood, B.C., North, M.J. and Coombs, G.H.  
The release of hydrolases from *Trichomonas vaginalis* and *Tritrichomonas foetus*, 135

Lustigman, S., Anders, R.F., Brown, G.V. and Coppel, R.L.  
A component of an antigenic rhoptry complex of *Plasmodium falciparum* is modified after merozoite invasion, 217

Macina, R.A., see Ibañez, C.F., 27

Majiwa, P.A.O., see Masake, R.A., 105

Mansour, T.E., see Estey, S.J., 67

Marikovsky, M., Fishelson, Z. and Arnon, R.  
Purification and characterization of proteases secreted by transforming schistosomula of *Schistosoma mansoni*, 45

Masake, R.A., Nyambati, V.M., Nantulya, V.M., Majiwa, P.A.O., Moloo, S.K. and Musoke, A.J.  
The chromosome profiles of *Trypanosoma congolense* isolates from Kilifi, Kenya and their relationship to serodeme identity, 105

McCall, P.J., see Murray, K.A., 209

McCUTCHAN, T.F., see Lal, A.A., 291

Meshnick, S.R., see Fairfield, A.S., 77

Miles, M.A., see Blaxter, M.L., 259

Miller, J.S.  
Effects of temperature elevation on mRNA and protein synthesis in *Leishmania mexicana amazonensis*, 175

Miller, R.L., see Wang, A.L., 225

Moloo, S.K., see Masake, R.A., 105

Murray, K.A., Post, R.J., Crampton, J.M., McCall, P.J. and Kouyate, B.  
Cloning and characterization of a species-specific repetitive DNA sequence from *Onchocerca armillata*, 209

Musoke, A.J., see Masake, R.A., 105

Nantulya, V.M., see Masake, R.A., 105

Nene, V., see Havercroft, J.C., 83

Nilsen, T.W., see Perrine, K.G., 97

Nohynkova, E., see Opperdoes, F.R., 155

North, M.J., see Lockwood, B.C., 135

Nudelman, E., see Petry, K., 113

Nyambati, V.M., see Masake, R.A., 105

O'Sullivan, W.J., see Soong Lee, C., 271

Opperdoes, F.R., Nohynkova, E., Van Schaftingen, E., Lambeir, A.-M., Veenhuis, M. and Van Roy, J.  
Demonstration of glycosomes (microbodies) in the Bodonid flagellate *Trypanoplasma borelli* (Protozoa, Kinetoplastida), 155

Perrine, K.G., Denker, J.A. and Nilsen, T.W.  
A multi-copy gene encodes a potentially protective antigen in *Brugia malayi*, 97

Petry, K., Nudelman, E., Eisen, H. and Hakomori, S.-i.  
Sulfated lipids represent common antigens on the surface of *Trypanosoma cruzi* and mammalian tissues, 113

Pettersson, U., see Ibañez, C.F., 27

Post, R.J., see Murray, K.A., 209

Procell, P.M., see Lal, A.A., 291

Profous-Juchelka, H., Liberator, P. and Turner, M.  
Identification and characterization of cDNA clones encoding antigens of *Eimeria tenella*, 233

Queen, S.A., Vander Jagt, D. and Reyes, P.  
Properties and substrate specificity of a purine phosphoribosyltransferase from the human malaria parasite, *Plasmodium falciparum*, 123

Ramos, H., see Urbina, J.A., 185

Ranz, A., see Fairfield, A.S., 77

Reyes, M.B., see Ibañez, C.F., 27

Reyes, P., see Queen, S.A., 123

Richardson, B.A., see Havercroft, J.C., 83

Rogers, W.O. and Wirth, D.F.  
Generation of sequence diversity in the kinetoplast DNA minicircles of *Leishmania mexicana amazonensis*, 1

Ross, A.M., see Koronakis, V.E., 89

Sadigursky, M., see Von Kreuter, B.F., 197

Santos-Buch, C.A., see Von Kreuter, B.F., 197

Saul, A., see Suplick, K., 289

Schillinger, G., see Wunderlich, F., 55

Schoenmakers, J.G.G., see Wesseling, J.G., 143

Smits, M.A., see Wesseling, J.G., 143

Soong Lee, C., Jiménez, B.M. and O'Sullivan, W.J.  
Purification and characterization of uridine (thymidine) phosphorylase from *Giardia lamblia*, 271

Speth, V., see Wunderlich, F., 55

Suplick, K., Akella, R., Saul, A. and Vaidya, A.B.  
Molecular cloning and partial sequence of a 5.8 kilobase pair repetitive DNA from *Plasmodium falciparum*, 289

Taylor, D.W., see Havercroft, J.C., 83

Turner, M., see Profous-Juchelka, H., 233

Turrens, J.F., see Giulivi, C., 243

Urbina, J.A., Vivas, J., Ramos, H., Larralde, G., Aguilar, Z. and Avilán, L.  
Alteration of lipid order profile and permeability of plasma membranes from *Trypanosoma cruzi* epimastigotes grown in the presence of ketoconazole, 185

Vaidya, A.B., see Akella, R., 165

Vaidya, A.B., see Suplick, K., 189

Vander Jagt, D., see Queen, S.A., 123

Van Roy, J., see Opperdoes, F.R., 155

Van Schaftingen, E., see Opperdoes, F.R., 155

Veenhuis, M., see Opperdoes, F.R., 155

Vivas, J., see Urbina, J.A., 185

Von Kreuter, B.F., Sadigursky, M. and Santos-Buch, C.A.  
Complementary surface epitopes, myotropic adhesion and active grip in *Trypanosoma cruzi* - host cell recognition, 197

Wang, A.L., Miller, R.L. and Wang, C.C.  
Antibodies to the *Giardia lamblia* double-stranded RNA virus major protein can block the viral infection, 225

Wang, C.C., see Wang, A.L., 225

Wesseling, J.G., Smits, M.A. and Schoenmakers, J.G.G.  
Extremely diverged actin proteins in *Plasmodium falciparum*, 143

Wirth, D.F., see Rogers, W.O., 1

Wunderlich, F., Helwig, M., Schillinger, G. and Speth, V.  
Cryptic disposition of antigenic parasite proteins in plasma membranes of erythrocytes infected with *Plasmodium chabaudi*, 55

## Subject Index

Actin, 143  
 Adenylate cyclase, 67  
 Affinity-purified antibody, 217  
 cAMP, 67  
 Antibody, 225  
 Antigen, 27, 83  
 Antigenic complex, 217  
 Antioxidant enzyme, 243

Bodonidae, 155  
*Brugia malayi*, 97

Catalase, 77  
 Cell-cell adhesion, 197  
 Chemiluminescence, 243  
 Chromosome profile, 105  
 Circumsporozoite gene, 291  
 Cloning, 83  
 Complementary surface epitope, 197  
 Concanavalin A, 45  
 Constitutive antigen, 233  
 Curing of viral infection, 225

Development, 67  
 Developmental changes, 35  
 Diagnosis, 259, 289  
 Diagnostic antigen, 19  
 DNA probe, 209  
 DNA sequencing, 97  
 DNA-binding protein, 89  
 cDNA gene bank, 9  
 cDNA library, 233  
 cDNA sequence, 279

*Eimeria tenella*, 233  
 Electron spin resonance, 185  
 Eosinophil cationic protein, 35  
 Epimastigote, 185  
 Epitope mapping, 19  
 Ergosterol, 185  
 Erythrocyte membrane, 55  
*Euglena*, 155  
 Evolution, 1, 143, 165  
 Exoantigen, 9  
 Exported antigen, 279  
 Extracellular enzyme, 135

Forskolin, 67  
 Fructose 2,6-bisphosphate, 155

Genomic clone, 97  
*Giardia lamblia*, 271  
*Giardia lamblia* double-stranded RNA virus, 225  
 Glutathione peroxidase, 77  
 Glycerol, 253  
 Glycolytic enzyme, 155

Glyosome, 155  
 Heat shock, 175  
 Human malaria parasite, 123  
 Hydrolase, 135  
 5-Hydroxytryptamine, 67

Inhibition of viral infection, 225

Ketoconazole, 185  
 Kinetoplast DNA, 1  
 Kinetoplastida, 155

D-Lactate, 253  
 L-Lactate, 253  
 Lambda gt11, 27  
*Leishmania*, 1, 175, 253  
*Leishmania donovani*, 259  
 Lipid, 113  
 Lysosome, 135

Major viral protein, 225  
 Malaria, 55, 165, 289  
 Malaria vaccine, 279  
 Mammalian tissue, 113  
 Membrane signal transduction, 67  
 Microtubule, 165  
 Minicircle, 1  
 Mini-exon, 89  
 Mitochondrial DNA, 1  
 Molecular cloning, 165, 289  
 Monoclonal antibody, 113  
 Multigene family, 97

Non-genetic variation, 35

*Onchocerca armillata*, 209  
 Oxidant defenses, 77  
 Oxidant stress, 77  
 Oxygen radical, 243

Parasite inhibitory monoclonal antibody, 9  
 Parasite protein, 55  
 Parasite-host cell recognition, 197  
 Passive permeability, 185  
 Phosphorylase, 271  
 Plasma membrane, 185  
*Plasmodium*, 165  
*Plasmodium chabaudi*, 55  
*Plasmodium falciparum*, 9, 77, 123, 143, 217, 279, 289  
*Plasmodium malariae*, 291  
 Poly-L-lysine, 35  
 Purine metabolism, 123  
 Purine phosphoribosyltransferase, 123  
 Pyrimidine, 271

Recombinant fusion protein, 259  
Regulation of tubulin biosynthesis, 175  
Repeated sequence, 289  
Repetitive DNA, 209  
Reverse Pasteur effect, 253  
Rhoptry, 217  
Rhoptry complex, 217  
RNA Leader, 97  
  
Salvage synthesis, 271  
*Schistosoma*, 83  
*Schistosoma mansoni*, 19, 35, 45, 67  
Schistosomulum, 45, 67  
Secreted enzyme, 45  
Sequence similarity, 143  
SERA gene, 279  
Serine protease, 45  
Serodeme, 105  
Serotonin, 67  
Skeletal muscle myoblast, 197  
Sporozoite, 291  
Sterol synthesis, 185  
  
Subcellular localization, 135  
Sulfated lipid antigen, 113  
Superoxide dismutase, 77  
Surface, 83  
  
Tandem repeat, 27  
Taxonomy, 209  
Tegument, 83  
Tegument surface, 35  
Transcription, 89  
Translational control, 175  
*Trichomonas vaginalis*, 135  
*Tritrichomonas foetus*, 135  
*Trypanoplasma borelli*, 155  
*Trypanosoma brucei*, 89  
*Trypanosoma congolense*, 105  
*Trypanosoma cruzi*, 27, 113, 185, 197, 243  
Trypanosome, 253  
 $\alpha$ -Tubulin, 165  
  
Visceral leishmaniasis, 259

